INSTRUCTION MANUAL

REGULATED POWER SUPPLIES

MODEL #LCS-EE-48-9575

MP MASTER
MA28311

LAMBDA

LAMBDA ELECTRONICS MELVILLE, L. I., N. Y.

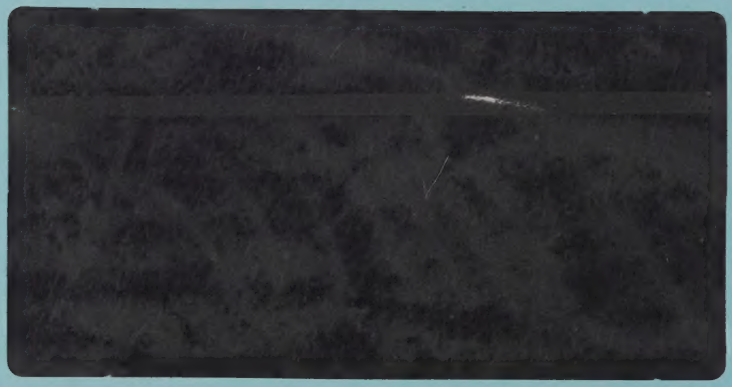


TABLE OF CONTENTS

Addenda

Added Parts List

Schematic (Size A)

STD Instruction Manual: LCS-EE-48

MODEL #LCS-EE-48-9575

ADDENDA

MODEL #LCS-EE-48-9575

The paragraphs of this instruction manual apply in general to the above model.

This modified unit differs from a standard unit in the following way (s):

The DC Output is 38V ± 5% adj. @ 12A @ 40°C.

DEVIATION FROM AND/OR ADDED PARTS TO STANDARD ELECTRICAL PARTS LIST

Model #LCS-EE-48-9575

CIRCUIT DESIG.	DESCRIPTION	LAMBDA NO.
T1	Spec. Transformer	SP-9575-1
R20	Resistor 30.1K, 1%, ¼W Film	DCT-30-101

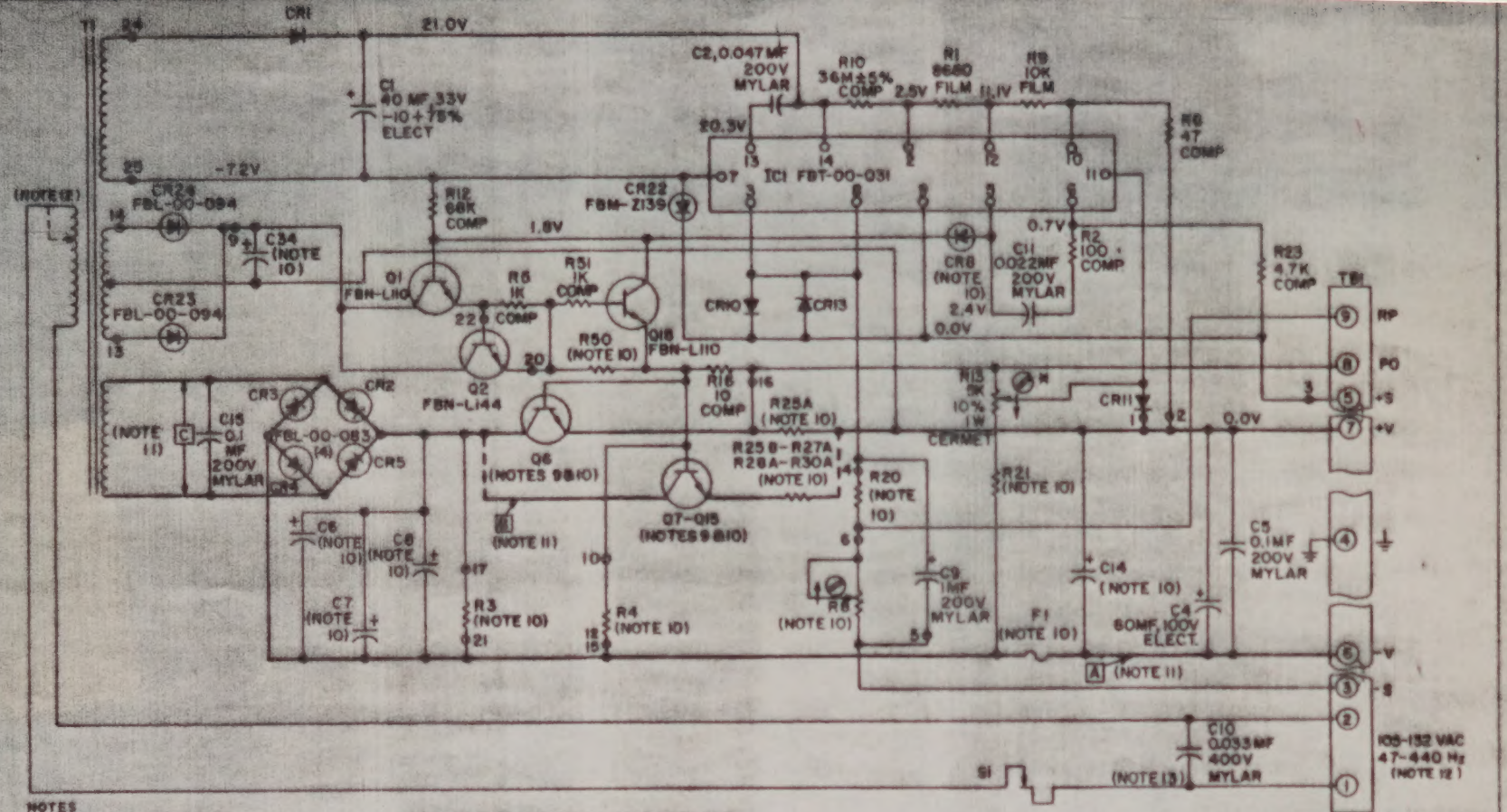
Digitized by the Internet Archive
in 2025

https://archive.org/details/manualsplus_09725

TABLE I
SCHEMATIC DATA REFERENCES
MODELS LCS-EE-12 THRU LCS-EE-48

Models	Schematic Voltage Measurements			Schematic Components											
				C6-C8	C14, C34	CR5	F1	Q6-Q15	R3	R4	R5	R20	R21	R25A-R27A R28A-R30A	R50
	A (Vdc)	B (Vdc)	C (Vac)	-10+100% ELECT	-10+100% ELECT	*FBL-00-	(AMPS)	*FBN-	±5% 5W WW	5W WW	±5% 2W WW	¼W FILM	±1% ¼W FILM	±5% WW	±5% 5W WW
LCS-EE-12	-12	11.8	15.0	26,000 mf 30 vdc	3600 mf 35 vdc	030	50	36485	750	1K ±5%	13K	9.09K ±1%	80K	0.3 11W	0.208
LCS-EE-15	-15	15.4	19.8	26,000 mf 30 vdc	3600 mf 35 vdc	030	50	36485	750	1K ±2%	13K	9.09K ±1%	80K	0.3 11W	0.208
LCS-EE-20	-20	17.1	26.1	13,000 mf 60 vdc	2000 mf 60 vdc	030	40	36220	1.8K	2K ±5%	15K	15K ±5%	66.5K	0.3 11W	0.3
LCS-EE-24	-24	19.5	29.6	13,000 mf 60 vdc	2000 mf 60 vdc	030	30	36220	1.8K	2K ±5%	15K	20K ±1%	100K	0.3 11W	0.3
LCS-EE-28	-28	21.0	33.2	13,000 mf 60 vdc	2000 mf 60 vdc	030	30	36220	1.8K	2K ±5%	15K	20K ±1%	121K	0.3 11W	0.3
LCS-EE-48-9575	30			4000 mf 100 vdc	880 mf 100 vdc	036	20	35902	5.6K	9K ±5%	33K	30.1K	121K	0.75 8W	0.5

* Lambda part no.



NOTES

1. RESISTOR VALUES ARE IN OHMS.
2. RESISTOR WATTAGE 1/4 WATT; RESISTORS ABOVE 2 WATTS ARE WIREWOUND UNLESS OTHERWISE NOTED.
3. RESISTOR TOLERANCES: COMP. ±10%, WIREWOUND ±2% FILM ±1%, UNLESS OTHERWISE NOTED.
4. CAPACITOR TOLERANCES: ELECTROLYTIC -10%, +100%; MYLAR ±10%, CERAMIC 10%, UNLESS OTHERWISE NOTED.
5. SYMBOLS:
   - ↻ INDICATES CLOCKWISE ROTATION OF SHAFT.
   - ⏚ INDICATES CONNECTION TO CHASSIS.
   - ⊘ INDICATES ADJUSTMENT OR CALIBRATION CONTROL. SEE INSTRUCTION MANUAL.
   - ⋈ LAMBDA PT #FBL-00-030; USE IN 4002 MODE FOR REPLACEMENT UNLESS OTHERWISE NOTED.
   - ⊕ INDICATES TERMINAL ON PRINTED WIRING BOARD.
6. DESIGNATION IS LAMBDA PART NUMBER.
7. DERATE CURRENT 10% FOR 47-53 Hz. FOR 57-440 Hz, CONSULT FACTORY.
8. CONDITIONS FOR CIRCUIT POINT MEASUREMENTS: INPUT: 115 VAC, 60 Hz, NOM., RATED VOLTAGE NO LOAD. INDICATED VOLTAGES ARE TYPICAL VALUES AND ARE DC UNLESS OTHERWISE NOTED. DC MEASUREMENTS TAKEN WITH 20,000 OHMS/V VOLTMETER BETWEEN +S (TERM. 7) & INDICATED POINTS UNLESS NOTED. -S AND +V SHORTED, -S AND -V SHORTED.
9. COAT BOTH SIDES OF INSULATING WAFER WITH DOW CORNING NO. 340 SILICONE GREASE.
10. SEE TABLE I FOR COMPONENT VALUES.
11. SEE TABLE I FOR VOLTAGE VALUES.
12. ON UNITS WITH "V" OPTION, T1 HAS TAPPED PRIMARY. "V" OPTION UNITS CAN BE WIRED FOR 187-242V INPUT (USING TAP) OR FOR 205-265V INPUT (USING ENTIRE PRIMARY).
13. ON UNITS WITH "V" OPTION, C10 IS 0.01 MF ±10%, 1000V, PAPER.

MODEL
LCS-EE-48-9575

THIS SCHEMATIC APPLIES TO UNITS BEARING SERIAL NO. PREFIX A

FOR WIRING OF POWER SUPPLY TO LOAD REFER TO POWER SUPPLY-TO-LOAD WIRING DIAGRAMS

DOTTED CONNECTIONS INDICATE JUMPERS IN PLACE FOR LOCAL SENSING 2-WIRE CONNECTION

A

LAMBDA
ELECTRONICS
MELVILLE, L.I., NEW YORK
DIVISION OF VOLTRONICS INSTRUMENTS INC.

SYM	DESCRIPTION	DATE	APPL.
A	ORIG.	-82	MJ

SHEET 1 of 2

MP MASTER
MA28311